SCDXC Newsletter

The Southern California DX Club is a group of dedicated men and women active in the amateur radio community who enjoy communicating over the air with other radio amateurs around the world.

The SCDXC strongly supports the DX Code of Conduct. Please visit their website:

www.dx-code.org

The SCDXC newsletter is published monthly and released to club members around the first of each month. Amateur and DX related letters, news and pictures are welcome and will be published as time and space permit.

Articles will be republished with recognition of the author and the club. Reuse of copyrighted materials require the original author's permission.

Any questions regarding this newsletter or its articles should be addressed to the Editor, Bill, N6RV at:

n6rv@scdxc.org

Club meetings are held on the second Thursday of the month at 7:00 PM except April, June, and December.

Please check the club web site for events and details at:

http://www.scdxc.org

If you are in the area please say hello on our repeater:

W6AM/R 145.48, (-) PL 100.0

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If you need him get in there and

"The colors that never

Announcements

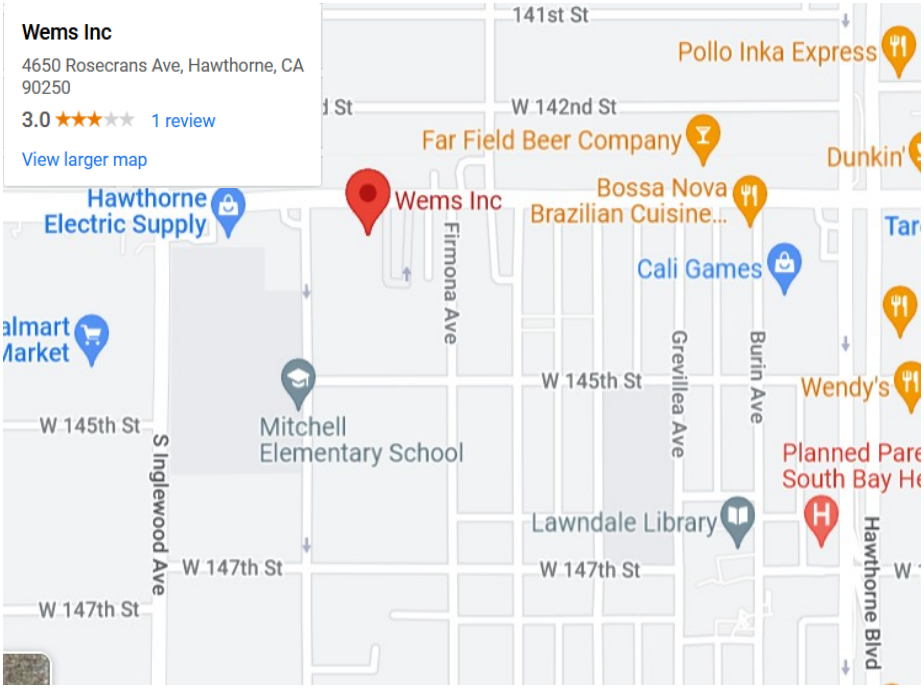
No April Meeting

See You in Visalia!

Come Join Us!

The May meeting will be live and on Zoom. You can watch at the link below:

SCDXC Club Meeting



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From the Desk of the President
John Schroeder, N6QQ

Welcome to the April SCDXC newsletter!

The Visalia DX convention is looking great. So far, 389 DXers have signed-up (as of March 26). The web site shows over 29,118 visitors.

If you are planning on going, there are three ways to buy Raffle Tickets. By phone, US mail, and at the convention. Take a look at the convention raffle site for more information:

https://www.dxconvention.com/pages/raffle.html

The club will be giving out two Awards - DXer of the Year, and the Clipperton Award.

Its fun watching the Beat Schroeder Contest. Bill, N6RV and Larry, K6RO are at the top. They have worked 231 vs. 227 countries so far this year. If you look back 4 years ago, we were lucky to work 200 countries for the whole year.18 SCDXC members have already worked DXCC so far this year.

If you would like to take a look at the ClubLog site, go to this site:

https://clublog.org/league.php?club=60

Band conditions - 6 meters is open almost everyday. 10 Meters, open to Eu every-day. Other bands doing great.

We Look forward to meeting you at the convention and at our next meeting on May 11th.

73 de John, N6QQ
President, SCDXC

N6QQ@scdxc.org

April Calendar

April 1 EA RTTY Contest
April 1 SP DX Contest
April 8 JIDX CW Contest
April 8 OK/OM DX Contest SSB
April 13 NO MEETING
April 14 Holyland DX Contest
April 15 YU DX Contest
April 22 SP DX Contest RTTY
April 29 UK/EI DX Contest CW

For more contest Info see:
http://www.hornucopia.com/contestcal/contestcal.html

VP Corner April 2023

Howard Elovitz, W6FL

Bouvet
For those that needed Bouvet as an ATNO the LOTW confirmations have been submitted for a significant number of their contacts. With Bouvet and Crozet need only Glorioso for Top of Honor Roll.

Presentation

Tom Fagan K7DF

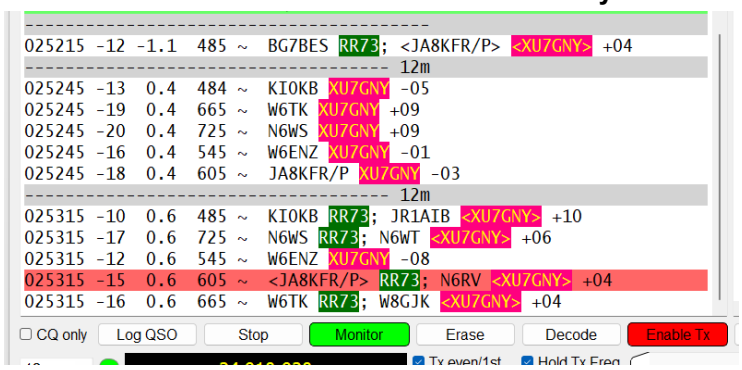
With the Visalia DX Convention in April there is no meeting / presentation. Our May 11th our presenter will be Tom Fagan K7DF. Tom will discuss Lightening / Grounding techniques. Tom K7DF has been an Electrical Engineer since 1985. He majored in RF, Antennas and microwave engineering and specialized in Radars, Electromagnetic Interference (EMI) and Spectrum Management. He has been a IEEE EMC Society member since 1986 and senior member since 2000. Tom is iNarte Certified: EMC Senior Engineer, Master EMC Design Engineer, ESD Engineer and Spectrum Manager. Tom was first licensed as WB7NXH in 1976. He became ARRL Technical specialist in 1985. ARRL Arizona Section Manager (2005-2013), Arizona Assistant Section Manager since 2013 and QCWA Arizona president (2014-2019).

Band Activity

Even with some radio blackouts the bands have be active late into the evening. With few exceptions 6 meters has been open daily to South America the Caribbean and the Pacific. Looking forward to European openings later this year.

Till next month Best of DX.
73 and Good DXing!
Howard W6FL

XU7GNY Works 6 SCDXC Members in 2 Cycles!



Every DXpedition is the WORST EVER....
UNTIL IT'S IN YOUR LOG

Rumors on the Band

By the time this newsletter is out, there will be four DXpeditions underway. Two, Sable Island, and Rwanda, are major ones! Also look out for the M/V Magnet. It will be weaving its way through the South Pacific. They landed at Nuka Hiva in the Marquesas and operated for several days. Right now they are heading to Tuamotu, another rare QTH. Expect FO/AA7JV to be active from there on 3/27! Rumors have it that it will land on Swains Island, KH8S. That might be a new one for many club members!

Crozet was very active and still it is #3 on the most wanted list!

QTH	Call	Start Date	End Date	Information
Sable Isl	CY0S	Now	29-Mar	DXpedition 160-2m CW SSB FT8 RTTY
St. Eustatius	PJ5/W5JON	Now	4-Apr	W5JON 80-6m SSB FT8
Rwanda	9X5RU	Now	3-Apr	R7AL RW9JZ RW8A OK8AU UA3QLC R5AF R5EC RU3UR 160-6 CW SSB FT8 (MSHV)
Solomon Is	H44MS	Now	30-Apr	DL2GAC HF SSB
Ghana	9G4X	Now	29-Mar	W6IZT N4GRN W8HC 9G5AF W9AP K9UR WB0SND N2ZX 4X5ZS 160-6m
Austral Isl	TX5XG	12-Apr	19-Apr	JA1XGI 40-10m CW SSB RTTY FT8
Uganda	5X2I	24-Apr	10-May	HA5AO 40-10m CW SSB FT8
Maldives	8Q7KB	27-Apr	7-May	DK2SBY 80-6m CW SSB RTTY FT4 FT8

ClubLog Top 50 Most Wanted Entities

1	P5	DPRK (NORTH KOREA)
2	3Y/B	BOUVET ISLAND
3	FT5/W	CROZET ISLAND
4	BS7H	SCARBOROUGH REEF
5	CE0X	SAN FELIX ISLANDS
6	BV9P	PRATAS ISLAND
7	KH7K	KURE ISLAND
8	KH3	JOHNSTON ISLAND
9	3Y/P	PETER 1 ISLAND
10	FT/G	GLORIOSO ISLAND
11	FT5/X	KERGUELEN ISLAND
12	YV0	AVES ISLAND
13	VK0M	MACQUARIE ISLAND
14	ZS8	PRINCE EDWARD & MARION ISLANDS
15	KH4	MIDWAY ISLAND
16	PY0S	SAINT PETER AND PAUL ROCKS
17	PY0T	TRINDADE & MARTIM VAZ ISLANDS
18	KP5	DESECHEO ISLAND
19	VP8S	SOUTH SANDWICH ISLANDS
20	KH5	PALMYRA & JARVIS ISLANDS
21	ZL9	NEW ZEALAND SUBANTARCTIC ISLANDS
22	FK/C	CHESTERFIELD IS.
23	EZ	TURKMENISTAN
24	VK0H	HEARD ISLAND
25	YK	SYRIA
26	FT/T	TROMELIN ISLAND
27	ZL8	KERMADEC ISLAND
28	JD/M	MINAMI TORISHIMA
29	KH8/S	SWAINS ISLAND
30	KH1	BAKER HOWLAND ISLANDS
31	XF4	REVILLAGIGEDO
32	VP8G	SOUTH GEORGIA ISLAND
33	KH9	WAKE ISLAND
34	SV/A	MOUNT ATHOS
35	T33	BANABA ISLAND
36	VK9M	MELLISH REEF
37	VK9W	WILLIS ISLAND
38	T31	CENTRAL KIRIBATI
39	FO/C	CLIPPERTON ISLAND
40	FT/J	JUAN DE NOVA, EUROPA
41	TI9	COCOS ISLAND
42	HK0/M	MALPELO ISLAND
43	KP1	NAVASSA ISLAND
44	ZD9	TRISTAN DA CUNHA & GOUGH ISLANDS
45	FT5Z	AMSTERDAM & ST PAUL ISLANDS
46	H40	TEMOTU PROVINCE
47	7O	YEMEN
48	VP8O	SOUTH ORKNEY ISLANDS
49	XZ	MYANMAR
50	CY0	SABLE ISLAND

CADXA Most Wanted DXCC Entities

ClubLog Most Wanted DXCC Ranking

DX Standings

Thanks to K2IXQ, K4ST, N0FW, N6RV, N6WS, W6FL, and WA5VGI for their updates!

If you notice the DXCC standings have been sorted differently. It was requested at the last meeting that we change the sorting. Now it is according to Current Entities confirmed. The secondary sort is by deleted + current entities. This was particularly satisfying since the members with the most current + deleted entities were still at the top. The first 9 held their positions. Several below #9 were scrambled! N6HC, KJ6Y, WA5VGI, and K6ND had the greatest movement, up 11. N7NR had the greatest drop, 22. A few lost between 9 and 19 places. The rest floated around 3 to 5.

Possibly next month there will be 4 tables, two DXCC each ranking members by Current and Deleted respectively and two WAZ ranking by 5B and 12B respectively.

Send any updates to:

N6RV@SCDXC.org

SCDXC WAZ and DXCC Standings

The first WAZ column is the confirmed zone count on 10 bands 160 - 6 (less 60 meters). The second column is the regular 5BWAZ confirmed count. The following are the codes that follow the two columns and indicate the awards:

M	Mixed
P	Phone
C	CW
R	RTTY

SCDXC Lifetime Standings

Rank	Call	Total	Current	Slots	Rank	Call	Total	Current	Slots
1	W6KH	389	340		45	N6AX	336	330	1198
2	JA1BK	383	340	3147	46	AA6PW	330	330	1766
3	OH2BH	378	340		47	K4SX	333	329	1737
4	K6YRA	378	340	2777	48	K7MY	322	320	1281
5	N0FW	372	340	2978	49	W6HB	311	311	1029
6	K6YUI	366	340	2598	50	N6DHZ	316	310	1421
7	NS6C	361	340	2592	51	NK6A	316	310	957
8	W6SR	359	340	2799	52	N6VNI	312	310	1514
9	K6FG	357	340	2774	53	N6WT	304	304	1879
10	K5KT	355	340		54	N6GP	314	292	1583
11	K6GXO	355	340	2633	55	K6IRD	298	292	649
12	W8DX	353	340	2449	56	W6ZL	285	289	1057
13	W6TK	351	340	1781	57	N6PM	280	280	1861
14	N6HC	349	340	2388	58	WA6WXD	274	274	
15	W6KK	349	340	1921	59	N6AA	247	247	
16	K6ND	348	340	2790	60	KQ6K	243	243	
17	WA5VGI	348	340	2772	61	K6JEY	234	234	
18	KJ6Y	348	340	1312	62	N6HE	238	229	746
19	WA6WZO	357	339		63	N6VOH	243	222	
20	N6RV	356	339	2407	64	NE6V	237	213	917
21	N6WS	351	339	2596	65	K6AFW	204	204	917
22	W6VX	349	339	2772	66	W6KC	203	202	743
23	KR6C	345	339	2135	67	WB6DJI	200	200	589
24	W6TJI	355	338		68	N6LL	169	169	
25	N6QQ	355	338	2315	69	W6GA	168	169	
26	W6IRD	354	338		70	KC6TOD	166	166	
27	W6RW	352	338	2197	71	KF6I	166	166	200
28	W6FL	352	338	1527	72	KK6M	162	162	
29	K6RO	346	338	2256	73	K7LA	160	160	466
30	N6PEQ	345	338	2030	74	K6FOD	154	154	
31	N6MG	338	338		75	W6QE	149	149	365
32	W6OU	356	337	1599	76	AB9A	141	141	224
33	N6HY	344	337	2424	77	WC2S	139	139	
34	N6IC	347	336		78	K9TAD	134	134	
35	SM5GMZ	346	335	2454	79	N6CA	133	133	386
36	AI6Z	342	335	2174	80	K6DW	129	129	302
37	K4ST	339	335	2051	81	NZ6L	129	128	158
38	K2IXQ	339	334	1794	82	WD6Y	124	124	274
39	K6JW	338	332	1151	83	AB6A	109	109	287
40	N7NR	354	331	1288	84	K6BBC	103	103	216
41	W6SW	339	331	540	85	N6YQ	100	100	
42	W6DR	336	331	1812	86	WA6MEM	100	100	
43	N6MXU	336	331	1416	87	W6CCC	95	95	211
44	K6SY	336	330	1070	88	K6YIC	43	43	92

WAZ Standings

Rank	Call	12B	5B	Awards
1	N0FW	424	200	M/P/C/R/5
2	WA5VGI	413	200	M/P/C/R/5
3	K6ND	411	200	M/5
4	N6WS	409	200	M/P/C/R/5
5	W6SR	384	200	M/P/C/5
6	K6FG	373	200	M/P/C/R/5
7	SM5GMZ	371	200	M/P/C/5
8	W8DX	357	200	M/5
9	N6AW	355	200	M/P/C/5
10	K6YUI	353	200	M/P/C/R/5
11	W6RW	344	200	M/P/C/5
12	K6YRA	337	200	P/5
13	W6VX	352	199	M/P/C
14	W6TK	367	198	
15	K6GXO	358	198	M
16	N6HY	365	196	M/P/C
17	N6RV	380	195	
18	K6RO	368	194	M/P/C
19	AI6Z	321	194	
20	NS6C	368	193	M/P/C/R/5
21	KR6C	342	192	
22	N6WT	369	190	
23	N6QQ	320	189	
24	N6PM	358	187	
25	W6DR	316	186	
26	K4ST	310	185	
27	N6GP	308	185	
28	W6OU	304	184	
29	AA6PW	298	181	
30	N6VNI	291	181	
31	K6SY	299	178	
32	KJ6Y	237	173	
33	N6DHZ	326	169	
34	N6HE	253	168	
35	W6ZL	242	166	M/P/C/R
36	K6JW	244	158	
37	NK6A	290	157	
38	W6KC	217	156	
39	W6FL	161	153	
40	NE6V	256	149	
41	K7MY	213	142	
42	K6IRD	220	130	
43	W6SW	154	126	M/P
44	W6IRD	102	112	
45	WD6Y	153	99	
46	K6VC	145	96	
47	K9TAD	94	81	
48	K6FOD	33	27	
49	N6HC	17	13	

2023 Get Schroeder Contest

1A0	4S	7Q	A3	CE9	E7	FK	GI	HS	KH0	LZ	PJ7	T2	TY	VK9L	VU4	YV0
1S	4U1ITU	7X	A4	CN	EA	FK/C	GJ	HV	KH1	OA	PY	T30	TZ	VK9M	VU7	Z2
3A	4U1UN	8P	A5	CO	EA6	FM	GM	HZ	KH2	OD	PY0F	T31	UA	VK9N	XE	Z3
3B7	4W	8Q	A6	CP	EA8	FO	GU	I	KH3	OE	PY0S	T32	UA0	VK9W	XF4	Z6
3B8	4X	8R	A7	CT	EA9	FO/A	GW	IS0	KH4	OH	PY0T	T33	UA2	VK9X	XT	Z8
3B9	5A	9A	A9	CT3	EI	FO/C	H4	J2	KH5	OH0	PZ	T5	UJ	VP2E	XU	ZA
3C	5B	9G	AP	CU	EK	FO/M	H40	J3	KH6	OJ0	R1F	T7	UN	VP2M	XW	ZB2
3C0	5H	9H	BS7H	CX	EL	FP	HA	J5	KH7K	OK	S0	T8	UR	VP2V	XX9	ZC4
3D2	5N	9J	BU	CY0	EP	FR	HB	J6	KH8	OM	S2	TA	V2	VP5	XZ	ZD7
3D2/C	5R	9K	BV9P	CY9	ER	FS	HB0	J7	KH8S	ON	S5	TF	V3	VP6	YA	ZD8
3D2/R	5T	9L	BY	D2	ES	FR/G	HC	J8	KH9	OX	S7	TG	V4	VP6/D	YB	ZD9
3DA	5U	9M2	C2	D4	ET	FR/J	HC8	JA	KL7	OY	S9	TI	V5	VP8	YI	ZF
3V	5V7	9M6	C3	D6	EU	FR/T	HH	JD1/M	KP1	OZ	SM	TI9	V6	VP8/G	YJ	ZK3
3W	5W	9N	C5	DL	EX	FT5W	HI	JD1/O	KP2	P2	SP	TJ	V7	VP8/H	YK	ZL
3XA	5X	9Q	C6	DU	EY	FT5X	HK	JT	KP4	P4	ST	TK	V8	VP8/O	YL	ZL7
3Y/B	5Z	9U	C9	E3	EZ	FT5Z	HK0/M	JW	KP5	P5	SU	TL	VE	VP8/S	YN	ZL8
3Y/P	6W	9V	CE	E4	F	FW	HK0/S	JX	LA	PA	SV	TN	VK	VP9	YO	ZL9
4J	6Y	9X	CE0X	E5/N	FG	FY	HL	JY	LU	PJ2	SV/A	TR	VK0H	VQ9	YS	ZP
4L	7O	9Y	CE0Y	E5/S	FH	G	HP	K	LX	PJ4	SV5	TT	VK0M	VR	YT	ZS
4O	7P	A2	CE0Z	E6	FJ	GD	HR	KG4	LY	PJ5	SV9	TU	VK9C	VU	YV	ZS8

Chart Legend	
White / Green	Entity Worked This Year by a Member
Black / White	Very Active Entity Not Yet Worked
Black / Blue	Entity with Announced DXpedition
Black / Yellow	Rarely Active Entity Not Yet Worked
Black / Red	Inactive Entity
	Deleted Entity

This was another banner month! Many members broke the 100 entity worked barrier and some even went over 200! The bands have been hot! We have seen evening long path on 10 through 15 meters! It has been over 11 years since that has happened!

Larry, K6RO, with his antennas and tower now set up in Fallbrook, has been burning up the bands working 34 new entities for the year. Larry has passed Kent, N6WT, while he is vacationing. Kent will be back! The usual gang is leading the pack with a few coming up fast. The top 5 have exceeded 200. In 3 months members have worked 258 entities! That is a whopping 86 per month, almost DXCC every month!

ClubLog leaders have been jousting for the top position over the past month. Many making huge leaps and staying there while the rest catch up. 5B4ALJ, Mike, has worked 240 entities this year. Amazing! The leaders have SCDXC members by 17 entities which is significant. K0XP, Steve has caught one entity that the leaders missed, V7, Marshall Islands.

Looking at the chart on the top of the page there is not much left to work! We have missed a few! There are still many months ahead and the conditions are just going to continue to improve.

Consider at the next meeting not saying; *"I don't need to be on the air because I worked them all.",* and think about how you can reenergize yourself in the hobby. We need to have a presence on the bands or we will lose them.

2023 Get Schroeder Leaders	
2023 Total Entities Worked	259
2022 Total Entities Worked	286
2023 Entities Worked by SCDXC	242
2022 SCDXC Entities Worked	262
2023 Entities Worked by SCDXC Members in SoCal	241
2022 Entities Worked by SCDXC Members in SoCal	262
2023 ClubLog Leaders Entities Worked	258
2022 ClubLog Leaders Entities Worked	285
2023 SCDXC Leader (N6RV)	231
2022 ClubLog Leader (N0FW)	256

Rank	Call	Entities	Last Mo.	Last Yr	Leader	-Tot	-QQ	Uniques
								8
1	N6RV	231	17	-12	11	-78	2	0
2	K6RO	227	42	-4	15	-74	0	0
3	N6WT	225	-34	-6	17	-72	1	0
4	N6WS	223	-29	-8	19	-70	1	0
5	W6TK	209	-42	-22	33	-56	0	0
6	W6OU	191	-32	-40	51	-38	0	0
7	W8GJK	177	-34	-54	65	-24	0	0
8	K6ND	170	-90	-61	72	-17	0	0
9	NS6C	165	-42	-66	77	-12	0	0
10	N6QQ	153	-75	-78	89	0	0	0
11	W6DR	153	-65	-78	89	0	0	0
12	N6PM	150	-63	-81	92	3	0	0
13	K0XP	146	22	-85	96	7	0	0
14	WA5VGI	144	-78	-87	98	9	0	0
15	W6ZL	132	-24	-99	110	21	0	0
16	K6AFW	127	-33	-104	115	26	0	0
17	N6DHZ	122	-62	-109	120	31	0	0
18	N6GP	110	-36	-121	132	43	0	0

ClubLog Worked Not SCDXC

4U1ITU	FJ	S2	V6	ZL7
5N	J2	S9	VU4	
8R	KH9	TJ	YA	
A2	PJ5	TU	YI	

SCDXC Worked Not ClubLog

V7

SCDXC Get Schroeder Standings 2023

Rank	Call	160	80	60	40	30	20	17	15	12	10	6	Total	Slots	YRS
1	N6RV	0	29	9	113	112	147	40	141	92	153	36	231	872	55
2	K6RO	3	29	25	125	104	170	149	170	178	177	30	227	1160	35
3	N6WT	4	13	3	39	49	89	55	52	58	64	9	225	435	9
4	N6WS	1	31	13	83	47	108	85	110	128	121	32	223	759	59
5	W6TK	2	26	18	101	89	146	126	153	134	154	0	209	949	66
6	W6OU	0	1	0	12	31	59	38	58	18	33	1	191	251	60
7	W8GJK	0	15	5	52	45	126	99	122	117	112	13	177	706	16
8	K6ND	27	9	10	38	47	48	38	42	53	53	2	167	367	32
9	NS6C	0	0	0	8	26	32	30	17	58	60	18	165	249	66
10	N6QQ	0	0	0	23	76	70	44	62	60	82	20	153	437	66
11	W6DR	11	6	36	33	46	29	42	31	75	70	13	153	392	53
12	N6PM	1	12	5	42	38	25	15	27	62	78	6	150	311	29
13	K0XP	25	2	0	46	1	12	5	31	5	125	0	146	252	16
14	WA5VGI	9	12	60	19	66	34	55	45	19	17	13	144	349	39
15	W6ZL	0	0	0	23	1	45	5	60	6	107	5	132	252	31
16	K6AFW	0	0	0	74	22	20	24	96	68	83	1	127	388	31
17	N6DHZ	0	7	0	12	5	29	9	52	16	91	0	122	221	35
18	N6GP	0	3	0	18	3	25	3	13	50	70	4	110	189	35
19	NK6A	0	0	0	5	1	24	1	82	0	51	0	95	164	78
20	N0FW	1	7	5	7	27	20	15	19	11	36	1	95	149	27
21	WB6DJI	0	0	0	42	3	65	11	18	0	26	11	93	176	30
22	KK6M	0	3	0	10	0	17	0	75	0	36	0	89	141	44
23	W6YLZ	0	3	6	3	20	19	17	9	25	10	17	88	129	35
24	K7MY	0	1	0	9	0	19	0	34	0	70	0	78	133	25
25	NE6V	2	2	11	11	15	20	3	11	10	22	0	74	107	27
26	W6SR	0	0	0	4	0	20	0	34	2	28	3	62	91	56
27	W8DX	0	0	0	2	6	31	5	10	5	25	1	60	85	66
28	WC2S	0	0	0	0	4	7	4	6	19	24	9	53	73	6
29	N6MG	5	9	0	6	19	8	10	19	17	21	0	47	114	45
30	KR6C	1	0	0	1	0	4	0	12	1	37	0	44	56	45
31	K6FOD	0	0	0	0	3	3	0	27	5	3	0	36	41	5
32	N6PEQ	0	0	0	2	1	2	0	4	0	12	0	17	21	37
33	K6JW	0	3	0	0	1	4	2	3	0	0	0	13	13	64
34	K9TAD	0	0	0	4	0	1	0	1	0	4	1	9	11	16
35	NZ6L	0	0	0	1	4	0	0	0	0	0	0	5	5	19
36	W6KK	0	0	0	0	0	0	0	0	1	1	0	2	2	28
37	W6SW	0	0	0	0	0	1	0	0	0	0	0	1	1	44
38	W6FL	0	0	0	0	0	0	0	0	0	0	1	1	1	63

Here is the first Bouvet Presentation by Adrian KO8SCA

[First Bouvet Island Presentation]

What Did We Really Work?

Two of the last three months contained major DX Contests, ARRL DX, CW & SSB and CQ WPX SSB. Furthermore, those months also saw the best propagation experienced in years. We will be running into Spring and there will be better times ahead. May brings the CQ WPX CW which always brings out the DX!

Entity	Prefix	Total 242	Jan 185	Feb 221	Mar 187	Entity	Prefix	Total 242	Jan 185	Feb 221	Mar 187	Entity	Prefix	Total 242	Jan 185	Feb 221	Mar 187
Monaco	3A	1			1	Armenia	EK	1	1	1	1	Papua New Guinea	P2	1		1	1
Agalega and St. Brandon	3B6	1			1	Liberia	EL	1	1	1		Aruba	P4	1	1	1	1
Mauritius Island	3B8	1		1	1	Iran	EP	1		1		Netherlands	PA	1	1	1	1
Rodriguez Island	3B9	1	1	1		Moldova	ER	1	1	1	1	Curacao	PJ2	1	1	1	1
Central African Republic	3C	1	1	1		Estonia	ES	1	1	1	1	Bonaire	PJ4	1	1	1	1
Fiji	3D2	1	1	1	1	Ethiopia	ET	1	1	1		Sint Maarten	PJ7	1			1
Kingdom of Eswatini	3DA	1		1		Belarus	EW	1	1	1	1	Brazil	PY	1	1	1	1
Tunisia	3V	1			1	Kyrgyzstan	EX	1	1	1	1	Fernando De Naronha	PY0F	1			1
Viet Nam	3W	1	1	1	1	Tajikistan	EY	1		1	1	Suriname	PZ	1	1	1	1
Guinea	3X	1		1	1	France	F	1	1	1	1	Western Sahara	S0	1	1	1	
Bouvet Island	3Y-B	1		1		Guadeloupe Island	FG	1	1	1	1	Slovenia	S5	1	1	1	1
Azerbaijan	4J	1	1	1	1	Mayotte	FH	1		1		Seychelles Islands	S7	1	1	1	1
Georgia	4L	1	1	1	1	New Caledonia	FK	1	1	1	1	Sweden	SM	1	1	1	1
Montenegro	4O	1	1	1	1	Martinique	FM	1	1	1		Poland	SP	1	1	1	1
Sri Lanka	4S	1	1	1		French Polynesia	FO-F	1	1	1		Sudan	ST	1		1	1
United Nations HQ	4U1U	1		1		Marquesas Islands	FO-M	1			1	Egypt	SU	1		1	1
Timor - Leste	4W	1		1	1	Reunion Island	FR	1	1	1	1	Greece	SV	1	1	1	1
Israel	4X	1	1	1	1	Saint Martin	FS	1	1	1		Dodecanese	SV5	1	1	1	1
Libya	5A	1		1	1	Crozet Island	FT8W	1	1	1		Crete	SV9	1	1	1	1
Cyprus	5B	1	1	1	1	Wallis & Futuna Islands	FW	1	1	1	1	San Marino	T7	1	1	1	
Tanzania	5H	1		1		French Guiana	FY	1	1	1	1	Palau	T8	1	1	1	
Madagascar	5R	1		1	1	England	G	1	1	1	1	Turkey	TA	1	1	1	1
Togo	5V	1		1		Isle Of Man	GD	1	1	1	1	Iceland	TF	1	1	1	1
Samoa	5W	1	1	1	1	Northern Ireland	GI	1	1	1	1	Guatemala	TG	1	1	1	1
Uganda	5X	1	1	1		Jersey	GJ	1	1			Costa Rica	TI	1	1	1	1
Kenya	5Z	1	1	1	1	Scotland	GM	1		1	1	Corsica	TK	1	1	1	1
Senegal	6W	1	1	1		Guernsey	GU	1	1	1	1	Republic of the Congo	TN	1	1	1	
Jamaica	6Y	1	1	1		Wales	GW	1	1	1	1	Gabon	TR	1	1	1	
Lesotho	7P	1		1		Solomon Islands	H4	1			1	Chad	TT	1		1	
Malawi	7Q	1	1	1	1	Hungary	HA	1	1	1	1	Mali	TZ	1	1	1	1
Algeria	7X	1	1	1	1	Switzerland	HB	1	1	1	1	European Russia	UA	1	1	1	1
Barbados	8P	1	1	1	1	Liechtenstein	HB0	1		1	1	Asiatic Russia	UA0	1	1	1	1
Maldives	8Q	1	1	1		Ecuador	HC	1	1	1	1	Kaliningrad	UA2	1	1	1	1
Croatia	9A	1	1	1	1	Galapagos Islands	HC8	1			1	Uzbekistan	UJ	1	1	1	1
Ghana	9G	1		1		Haiti	HH	1	1	1	1	Kazakhstan	UN	1	1	1	1
Malta	9H	1	1	1	1	Dominican Republic	HI	1	1	1	1	Ukraine	UT	1	1	1	1
Zaire	9J	1	1	1		Colombia	HK	1	1	1	1	Antigua & Barbuda	V2	1	1	1	
Kuwait	9K	1	1	1	1	San Andres Island	HK0-S	1		1	1	Belize	V3	1	1	1	1
West Malaysia	9M2	1	1	1	1	Republic of Korea	HL	1		1	1	Saint Kitts & Nevis	V4	1	1	1	
East Malaysia	9M6	1	1	1	1	Panama	HP	1	1	1	1	Namibia	V5	1	1	1	1
Nepal	9N	1	1	1	1	Honduras	HR	1	1	1		Marshall Islands	V7	1			1
Zaire	9Q	1			1	Thailand	HS	1	1	1	1	Brunei	V8	1	1	1	
Burundi	9U	1		1	1	Vatican	HV	1		1		Canada	VE	1	1	1	1
Singapore	9V	1	1	1	1	Saudi Arabia	HZ	1	1	1	1	Australia	VK	1	1	1	1
Rwanda	9X	1			1	Italy	I	1	1	1	1	Cocos (Keeling) Islands	VK9C	1		1	
Trinidad & Tobago	9Y	1	1	1	1	Sardinia	IS0	1	1	1	1	Norfolk Island	VK9-N	1	1	1	1
Oman	A4	1	1	1		Grenada	J3	1	1	1		Willis Island	VK9-W	1		1	1
United Arab Emirates	A6	1	1	1	1	Guinea-Bissau	J5	1		1		Anguilla	VP2-E	1	1	1	
Qatar	A7	1	1	1	1	Saint Lucia	J6	1	1	1	1	Montserrat	VP2-M	1			1
Bahrain	A9	1	1	1		Dominica	J7	1	1	1		British Virgin Islands	VP2-V	1		1	
Pakistan	AP	1	1	1	1	Saint Vincent	J8	1	1	1	1	Turks & Caicos Islands	VP5	1	1	1	1
Taiwan	BV	1	1	1	1	Japan	JA	1	1	1	1	Pitcarin Island	VP6	1			1
China	BY	1	1	1	1	Ogasawara	JD-O	1	1	1	1	Falkland Islands	VP8-F	1	1	1	1
Nauru	C2	1			1	Minami Torishima	JD1-M	1			1	Bermuda	VP9	1		1	1
Andorra	C3	1	1	1	1	Mongolia	JT	1	1	1	1	Singapore	VR	1	1	1	1
The Gambia	C5	1	1	1	1	Svalbard	JW	1			1	India	VU	1	1	1	1
Bahamas	C6	1	1	1	1	Jordan	JY	1	1	1	1	Mexico	XE	1	1	1	1
Chile	CE	1	1	1	1	United States	K	1	1	1	1	Cambodia	XU	1			1
Easter Island	CE0Y	1	1	1		Gauantanamo Bay	KG4	1	1	1	1	Macau	XX9	1		1	1
Antarctica	CE9	1	1	1	1	Mariana Islands	KH0	1		1	1	Myanmar	XZ	1			1
Morocco	CN	1	1	1	1	Guam	KH2	1	1	1	1	Indonesia	YB	1	1	1	1
Cuba	CO	1	1	1	1	Hawaii	KH6	1	1	1	1	Vanuatu	YJ	1	1	1	
Bolivia	CP	1	1	1		Alaska	KL7	1	1	1	1	Latvia	YL	1	1	1	1
Portugal	CT	1	1	1	1	US Virgin Islands	KP2	1	1	1	1	Nicaragua	YN	1		1	
Madeira Islands	CT3	1	1	1	1	Puerto Rico	KP4	1	1	1	1	Romania	YO	1	1	1	1
Azores	CU	1	1	1	1	Norway	LA	1	1	1	1	El Salvador	YS	1	1	1	
Uruguay	CX	1	1	1	1	Argentina	LU	1	1	1	1	Serbia	YU	1	1	1	1
Sable Island	CY0S	1			1	Luxembourg	LX	1	1	1	1	Venezuela	YV	1	1	1	1
Angola	D2	1	1	1	1	Lithuania	LY	1	1	1	1	Zimbabwe	Z2	1	1	1	
Cape Verde	D4	1	1	1	1	Bulgaria	LZ	1	1	1	1	North Macedonia	Z3	1	1	1	1
Comoros	D6	1		1	1	Peru	OA	1	1	1	1	Kosovo	Z6	1	1	1	1
Federal Republic of Germany	DL	1	1	1	1	Lebanon	OD	1	1	1		Southern Sudan	Z8	1			1
Philippines	DU	1	1	1	1	Austria	OE	1	1	1	1	Albania	ZA	1		1	1
North Cook Islands	E5-N	1	1	1		Finland	OH	1	1	1	1	Gibraltar	ZB2	1	1	1	
South Cook Islands	E5-S	1	1	1		Aland Island	OH0	1		1	1	U K Bases on Cyprus	ZC4	1		1	
Bosnia-Herzegovina	E7	1	1	1	1	Czech Republic	OL	1	1	1	1	Saint Helena	ZD7	1	1	1	1
Spain	EA	1	1	1	1	Slovakia	OM	1	1	1	1	Cayman Islands	ZF	1	1	1	1
Balearic Islands	EA6	1	1	1	1	Belgium	ON	1	1	1	1	New Zealand	ZL	1	1	1	1
Canary Islands	EA8	1	1	1	1	Greenland	OX	1	1	1		Paraguay	ZP	1	1	1	1
Ceuta & Melilla	EA9	1	1	1	1	Faroe Islands	OY	1	1	1	1	Republic of South Africa	ZS	1	1	1	1
Ireland	EI	1	1	1	1	Denmark	OZ	1	1	1	1						

What Did We Really Work?

If you ever wondered what was on during a contest here are two examples, the March 2023 ARRL DX Contest SSB and the February 2023 ARRL DX Contest CW. Note that in both cases DXCC was attainable in one weekend! Furthermore, looking at the band / entity lists many entities were active on several bands. If you note the disparity between the country counts from the logging program (DXKeeper) and the contest program (N1MM+) there is an explanation. Typical French entities that use a TO prefix do not map well into the logging program. They have to be manually entered into the DXCC List. So the actual mixed DXCC entities worked in both examples are low by one or two. Still DXCC is easily achieved in a weekend if you are willing to tough it out in the chair for a few hours.

Includes deleted entities

	Mixed	Phone	CW	DIGI	PSK	160M	80M	40M	30M	20M	17M	15M	12M	10M
worked	119	118	0	1	0	0	15	65	0	77	0	94	0	109
confirmed	0	0	0	0	0	0	0	0	0	0	0	0	0	0
verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Includes deleted entities

	Mixed	Phone	CW	DIGI	PSK	160M	80M	40M	30M	20M	17M	15M	12M	10M
worked	112	0	111	1	0	0	20	76	0	86	0	100	0	95
confirmed	87	0	87	0	0	0	16	54	0	62	0	73	0	72
verified	1	0	1	0	0	0	0	0	0	0	0	0	0	1

Contest: ARRLDXSSB

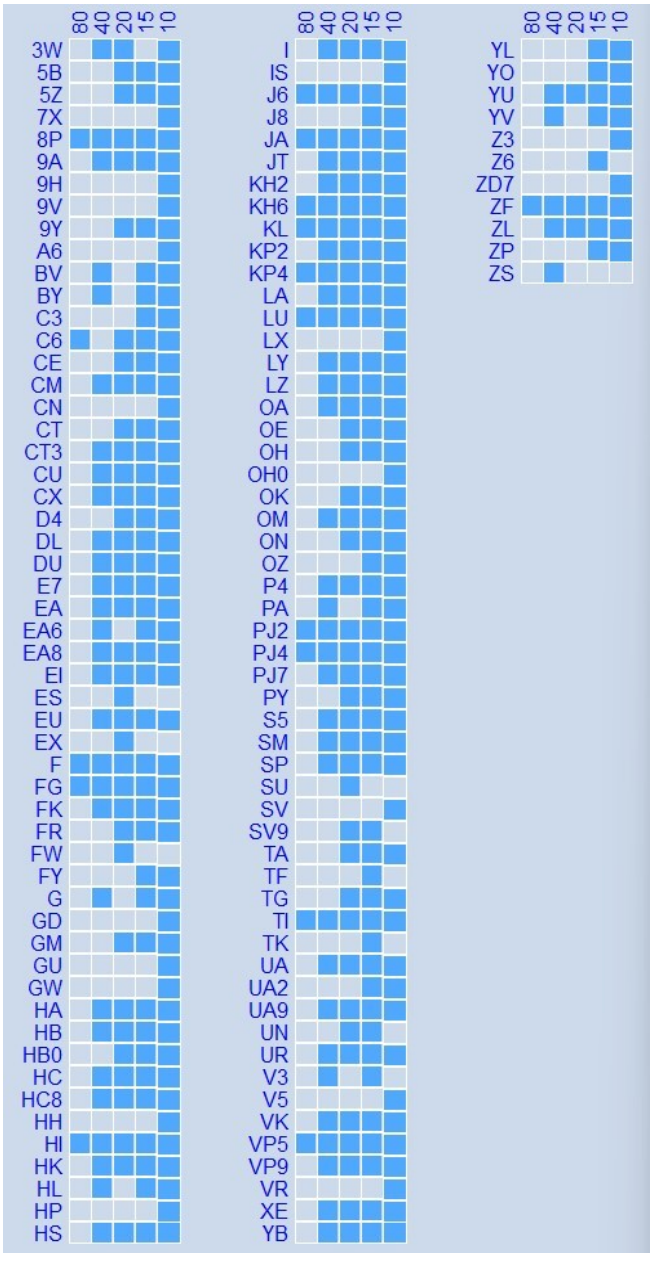
Band	QSOs	Pts	Cty	Pt/Q
3.5	23	69	16	3.0
7	300	900	67	3.0
14	247	741	81	3.0
21	477	1431	95	3.0
28	816	2448	108	3.0
Total	1863	5589	367	3.0

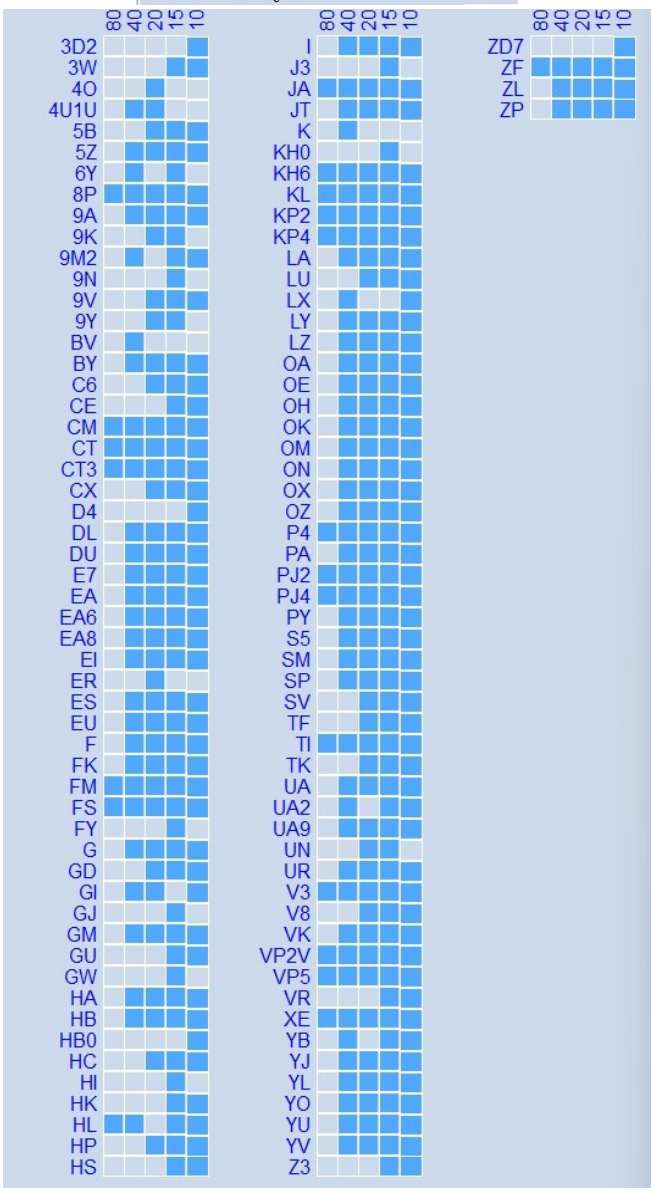
Score: 2,051,163
1 Mult = 5.1 Q's

Contest: ARRLDXCW

Band	QSOs	Pts	Cty	Pt/Q
3.5	56	168	21	3.0
7	380	1137	77	3.0
14	324	972	86	3.0
21	538	1614	101	3.0
28	807	2421	96	3.0
Total	2105	6312	381	3.0

Score: 2,404,872
1 Mult = 5.5 Q's

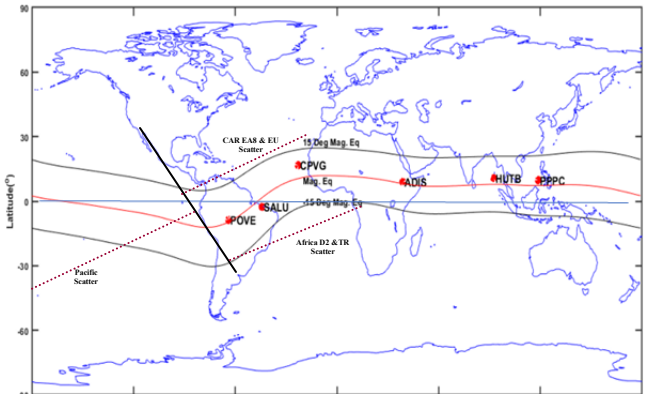




Who's on 6?

Well F2 propagation has finally started on 6 meters. With the SFI around 190 it seems to be good enough. Here are few links. The first is a seminal work on F2 propagation by James Kennedy, K6MIO. It focuses on 6 meters because of the uniqueness of the band but it does apply to HF as well. The second is a video on the South Atlantic Anomaly, a very good description. The third is a lecture on propagation.

Six Meter F2 Propagation **South Atlantic Anomaly** **Major Lecture**



It was a real eye opener regarding the relationship between the electron bulge during the winter anomaly, the geomagnetic equator, **The Fountain Effect**, and F2 propagation.

Last month we had multiple North-South and backscatter openings. On March 25 a few members worked D2UY in Angola and heard TR8CA in Gabon all while pointing over Argentina. TEP is normal around the spring equinox, however, Africa is super rare! We have had multiple weak sporadic E season openings since November! Many were strong enough to support CW and SSB. It is the best we have seen in several cycles. The fall F2 season tends to focus more on propagation in the Northern Hemisphere, Europe, Africa, and Asia. Summer sporadic E season which has been very productive the last several years! Hopefully this is a taste of what is coming at the peak!

The table below is a listing of 325 stations copied this year. Note the colors. Black means they were loud enough to be decoded by FT8. Blue indicates they were strong enough to be copied on CW and Red is SSB. Note that there is a lot of QSB on 6 meters. Traditionally on 6 meters you call at the peak and wait for the response at the next peak, if there is one. It is time consuming and the QSO rate is much slower than FT8. Nevertheless, if the nay-sayers were really serious about the other modes they should join us on DXChat. We could shuffle the loud signals to other modes. There should be a standard protocol. If the signals are above the detection threshold for the other modes some DX, who can operate CW, should move off frequency and start working people on the other modes. This has happened in the past. Many have worked 3D2 and SM that way. Instead of going to the regular band segment they QSY to 50.300 and change modes. Again, if the nay-sayers were serious they would also monitor the ON4KST website and cajole the DX there to move to a different mode. Many of the DX stations would love to work people on SSB and CW.

3D2AG	CE3VRT	CX2AQ	CX8DSK	HC1E	HK3O	KH6U	LU2BA	LU3MAM	LU5QAJ	LU8DNY	LW2EDM	PJ4RF	PV8AZ	PY2WLM	TG9AJR	YS1RS	ZL3AAD
3G3G	CE3WMJ	CX2CC	CX8FB	HC1MD/2	HK3W	KH7Z/MM	LU2BN	LU3VA	LU5VEK	LU8DRH	LW3DAS	PP5AMP	PV8DX	PY2XB	TG9ANF	YV1GIY	ZL3AAU
9Y4D	CE4BJ	CX2OS	CX9AU	HC2AO	HK3X	KP4AJ	LU2DGZ	LU3VA	LU5VV	LU8EDA	LW3DMA	PP5BK	PY1AVL	PY2ZLT	TI2ALF	YV5IUA	ZL3AIC
CA2EIH	CE4MBH	CX2SA	D2UY	HC2DR	HK4GSO	KP4EIT	LU2DPW	LU3VC	LU5WE	LU8EKC	LW4DCI	PP5FE	PY1JDX	PY3KD	TI2CC	ZD7MY	ZL3GAV
CA5EYL	CE4WJK	CX2TQ	D4L	HC2FG	HK4SAN	LU1BJW	LU2DX	LU3YAD	LU6VEK	LU8ENU	LW4DHB	PP5FMM	PY1MHZ	PY3YD	TI5/N5BEK	ZF1EJ	ZL3HAM
CB6CPC	CE6MS	CX3CQ	DJ1SL	HC2FJ	HK6G	LU1CGB	LU2EDM	LU3YZ	LU7CC	LU8EX	LW5DD	PP5VA	PY2AB	PY4AQA	TI5CDA	ZF1EJ	ZL3JT
CE2SV	CE6TK	CX3DAC	E25CRF	HC2MD/1	HK6RF	LU1DL	LU2FGL	LU4DCW	LU7DFC	LU8GMM	LW9DDW	PS8CW	PY2CER	PY4HGM	TI8AA	ZL1AKW	ZL3NW
CE3/CE0YHF	CE6UFF	CX3VB	E51WL	HC2RA	HP2DFA	LU1DNO	LU2GPB	LU4EFC	LU7DK	LU8JNS	NH6Y	PU2MLC	PY2DS	PY4KS	V31MA	ZL1BRL	ZL3OC
CE3AOL	CO2QU	CX4AAJ	EA8DBM	HC2TE	HR1JBR	LU1DPW	LU2MCF	LU4FPZ	LU7DUE	LU8VB	NP3XF	PU2MLO	PY2DV	PY4OY	VK30ER	ZL1MHS	ZL3OY
CE3HWU	CO3JA	CX4AE	FG8OJ	HC5VF	IZ5MG	LU1EG	LU2MPE	LU4FTA	LU7HN	LU8VEK	NP4BM	PU2NME	PY2EU	PY4XYZ	VK8MS	ZL1RQ	ZL3OZ
CE3KRM	CO7MS	CX4DAE	FK8CP	HD8M	J35X	LU1FAM	LU2VA	LU4FW	LU7MC	LU9AEA	OA1F	PU2TXZ	PY2GIG	PY5AM	VP2EIH	ZL1RS	ZL3PX
CE3LI	CO8LY	CX4DW	FK8CP	HH2AA	J69DS	LU1FM	LU3AHY	LU4HE	LU7PBO	LU9DLO	OA4YX	PU2VLW	PY2GMR	PY5AMF	VP8NO	ZL1SG	ZL3RC
CE3MRO	CU5AM	CX5TS	FK8HA	HI3I	J79WTA	LU1MQF	LU3CAQ	LU5BBV	LU7WA	LU9DO	P41E	PU4EPO	PY2IQ	PY5CC	WP4EJH	ZL1VAH	ZL3RJ
CE3MSX	CX1DA	CX6DRA	FO5QS	HI3T	JH7FMN	LU1QGM	LU3CM	LU5CAT	LU7XZ	LU9FVS	PI5CFC	PU4JOE	PY2MC	PY5EK	WP4G	ZL2AUB	ZL3WO
CE3SOC	CX1RL	CX6VM	GC5VF	HI8O	K2GT/KH6	LU1VDH	LU3CQ	LU5DF	LU8ADX	LW1DJ	PJ2BR	PU4TNT	PY2MR	PY8ABH	XQ3MCC	ZL2MF	ZL4KYH
CE3SX	CX1TH	CX7BBR	HC1B	HI8RD	KH6/N2AU	LU1WFU	LU3DCS	LU5ESB	LU8DCH	LW1DJL	PJ4/NE9U	PU5CFC	PY2ND	PZ5RA	XQ3SK	ZL2OK	ZL4LV
CE3TMM	CX1VH	CX7BJ	HC1BI	HJ5NZB	KH6HI	LU1WI	LU3EKW	LU5FF	LU8DIO	LW2DAF	PJ4DX	PU5KJN	PY2RC	TG9ADQ	XQ4KTM	ZL2UCI	ZL4SY
CE3VEM	CX2ACB	CX8DS	HC1DAZ	HK3CFM	KH6PE	LU1XMO	LU3FAP	LU5JB	LU8DNI	LW2DO	PJ4MM	PV8ABC	PY2VA	TG9AGR	XU7GNY	ZL2WHO	ZP9CTS
CE3VNA																	

The table to the right describes the methodology used to determine detectability Note that the channel SNR in an FT8 tone bandwidth is 1.9 dB (E_S/N_0). Without coding this value is typically around 8-12 dB depending on the amount of errors one is willing accept. This says that the source coding, channel coding, and a priori information that is used to aide FT8 decoding achieves a 6 to 10 dB improvement. Also note that the for RTTY, while operators have to decipher the computer decoded error laden messages, FT8 is virtually error free.

	Bandwidth	
Reference	2500 Hz	
SSB	2100 Hz	0.8 dB
CW	400 Hz	8.0 dB
FT8	48 Hz	17.2 dB
Tone	8 Hz	24.9 dB

Legend	
Black	FT8
Blue	CW
Red	SSB

Detection SNR	
FT8	1.9 dB
CW	3.0 dB
SSB	6.0 dB

Detection Threshold	
Reference	-23.0 dB
FT8	-5.8 dB
FT8 Tone	1.9 dB
CW	-5.0 dB
SSB	5.2 dB

The threshold SNR and the stated bandwidth assumptions for detecting CW and SSB are qualitative. A good operator can pull stations out below the stated SNR. It might require several transmissions and possibly the call sign is obtained from spotting websites. This is not unlike what FT8 does. Furthermore, 6 meter ops often use regenerative decoding by copying bits of several transmissions to achieve a QSO. Finally, the SNR stated by FT8 is an average over 15 seconds. There may be peaks much shorter that will accommodate completing a contact in SSB or CW. Again, the DX can make many more contacts in the same period using FT8 particularly if they run multi-streams.

Hopefully this takes some of the mystery out of the mode and reduces the belief that signals are decoded down to 23 dB below the noise.

```
183315 -17  0.3  222 ~  TG9AJR D4L -07
183345  -9  0.2  222 ~  TG9AJR D4L RR73
183400  Tx        983 ~  D4L N6RV -17
183430  Tx        983 ~  D4L N6RV -16
183500  Tx        983 ~  D4L N6RV -09
```

```
----- 03.03.23 03:23:14 UTC ------------- 6m ----
----- 03.03.23 03:25:14 UTC ------------- 6m ----
032500  -6  0.5  945 ~ CQ XU7GNY OK2                Cambodia
----- 03.03.23 03:25:44 UTC ------------- 6m ----
032530  -6  0.4  943 ~ CQ XU7GNY OK2                Cambodia
----- 03.03.23 03:25:59 UTC ------------- 6m ----
----- 03.03.23 03:26:14 UTC ------------- 6m ----
032600  -9  0.6  944 ~ CQ XU7GNY OK2                Cambodia
----- 03.03.23 03:26:29 UTC ------------- 6m ----
----- 03.03.23 03:26:44 UTC ------------- 6m ----
```

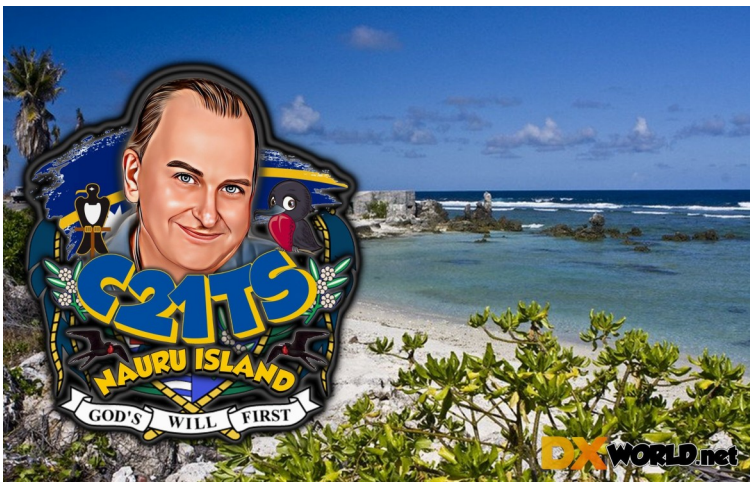
```
UTC   dB   DT Freq    Message
-------------------------------- 6m
032500  -6  0.6  946 ~  CQ XU7GNY OK2       CQ Zone 26
-------------------------------- 6m
032530  -6  0.5  943 ~  CQ XU7GNY OK2       CQ Zone 26
-------------------------------- 6m
032600 -12  0.6  944 ~  CQ XU7GNY OK2       CQ Zone 26
-------------------------------- 6m
```

Who's on 6?

SCDXC members have been hard at work adding to their 6 meter DXCC. Note that Bill, N6WS, worked ZD7, St. Helena, Chip, N6CA, worked D4, Cape Verde and Chip, N6CA and Bill, N6RV both worked D2, Angola. That should amaze even the most jaded among us. Have you worked 'em all on 6 meters yet?

We have worked so many South American and Pacific stations, many never heard before on the Magic Band. If propagation remains the same, in the fall, the tables will turn and we will be working Europe and Asia. It is quite possible that someone on the West Coast will work DXCC in one year… if not then during one solar cycle peak! Does this even wet your whistle to get on 6 meters?

	Pfx	Total	QSOs	N6CA	N6RV	N6WS	K6RO	N6QQ	NS6C	W6YLZ	W6DR	WA5VGI	W8GJK	N6WT	WC2S	WB6DJI	W6ZL	N6PM	N6GP	K6ND	W6OU	N0FW	K6AFW	W8DX	W6FL
		43	239	36	36	32	30	20	18	17	13	13	13	9	9	8	5	5	4	2	1	1	1	1	1
9	3D2	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	8P	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	9Y	1	5	1	1	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
77	CE	1	15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
83	CO	1	6	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	CX	1	10	1	1	1	1	1	1	1	0	0	0	1	0	1	0	1	1	0	0	0	0	0	0
91	D2	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	E5/N	1	9	1	1	1	1	1	1	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0
118	FG	1	3	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
121	FK	1	6	1	1	1	1	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
151	HC	1	13	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0
152	HC8	1	5	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
153	HH	1	5	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
154	HI	1	3	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	HK	1	6	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	HR	1	6	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
167	J3	1	2	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
169	J6	1	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	J7	1	3	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
172	JA	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
179	K	1	11	1	1	1	1	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	1	1	0
187	KH6	1	4	1	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
195	KP4	1	5	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
198	LU	1	14	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	0	0	0	0
202	OA	1	5	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
215	P4	1	2	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
218	PJ2	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
219	PJ4	1	10	1	1	1	1	1	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0
222	PY	1	8	1	1	1	1	1	0	1	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0
226	PZ	1	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
251	TG	1	9	1	1	1	1	1	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0
252	TI	1	9	1	1	1	1	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0
270	V3	1	4	1	1	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
276	VE	1	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
277	VK	1	4	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
292	VP8	1	5	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
303	XE	1	6	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
318	YS	1	7	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
320	YV	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
329	ZD7	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
332	ZF	1	8	1	1	1	1	1	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0
334	ZL	1	12	1	1	1	1	1	0	1	1	1	1	0	1	1	1	0	0	0	1	0	0	0	0
338	ZP	1	4	1	0	1	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0



9G4X GHANA

CHRIS
STAPLETON

9G4X

March 2023
DXpedition
9G4X

9G4X

9G4X

9G4X

Deleted ARRL DXCC Entities

This month we look at French Equatorial Africa. This is entity number 25 out of 60 on the ARRL DXCC deleted list. It is amazing that we covered 25 so far!

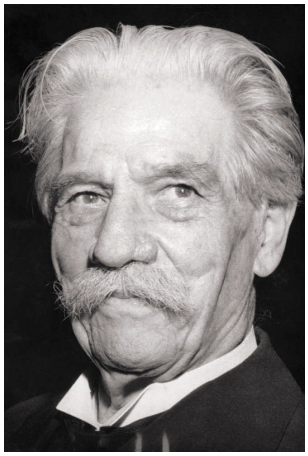
Prefix	Entity	Cont	Zone		UTC	Location		Prefix
			ITU	CQ	+/-	Lat	Long	
FQ8	Fr Equatorial Africa	AF	47, 52	36	1	5N	18E	
HK0	Bajo Nuevo	NA	11	8	-5	16N	79W	
HK0	Serrana Bnk, Roncador Cay	NA	11	7	-5	14N	80W	KP3, KS4
I1	Trieste	EU	28	15	1	46N	14E	
I5	Ital Somaliland	AF	48	37	3	2N	46E	
JD1	Okino Tori-shima	AS	45	27	10	30N	140E	7J1
JZ0	Neth New Guinea	OC	51	28	10	10S	147E	
KR6	Okinawa (Ryukyu)	AS	45	25	8	26N	128E	KR8, JR6, KA6

French Equatorial Africa

French Equatorial Africa was established in 1910 and was gone by 1958. It contains Gabon, Congo Ubangi-Shari (central African Republic) and Chad. This comprised a little less than 1/8 of the continent. Many private companies went into the region and harvested many of its natural resources. It suffices to say that the treatment of the indigenous was cruel and today would be considered criminal.

The territory survived both WWI and WWII though Gabon was controlled by the Nazi puppet Vichy government. In 1958, under what France called the Fourth Republic, a referendum was set forth to dissolve the territory and return it to autonomous rule.

It is unusual that Cameroon was not incorporated into the territory. Actually the region came under French and British control after WWI when it was taken from the Germans.



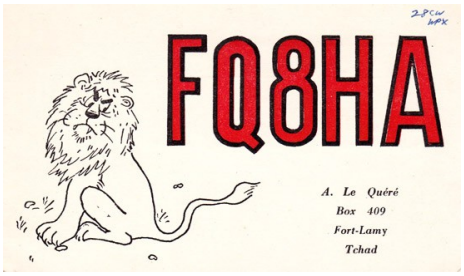
Probably one of the most celebrated personalities in French Equatorial Africa was the Lutheran minister and medical doctor Ludwig Philipp Albert Schweitzer. He established a hospital on the Ogooue River and dedicated his life to the treatment of the local indigenous who travelled for miles to receive medical attention. Dr. Schweitzer was a Nobel Prize recipient for his philosophical view on the reverence for life. He is buried at his beloved hospital. The grave is marked by a cross he himself made.

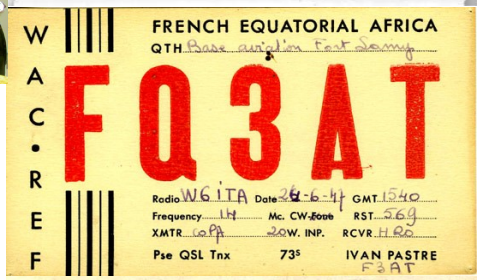
Amateur Radio Operations

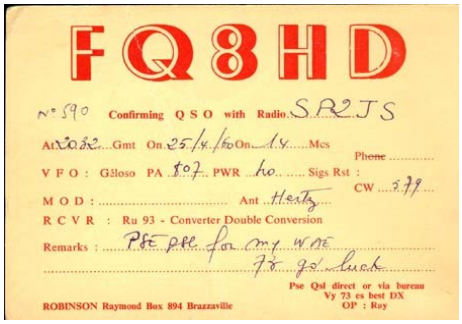
It is obvious from the table of QSLs from French Equatorial Africa there are many operators over the years. Most of them from the 50s. The earliest was the great French DXpeditioner, Jean Denimal who operate in 1927– 1928 as FQ8HPG and then FQ8WB in 1929. He also operated from FR, EA8, FF8 (6W), FM8 (CN), AR8 (OD), all of them but Isla Canarias were French Possessions.

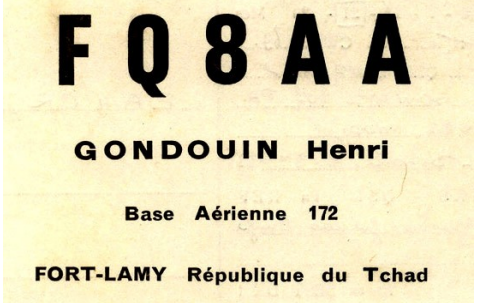
Ivan Pastre operated from Gabon in 1947 as FQ3AT. He was on the ARRL Honor Roll and was in the French Air Force. He was also licensed in Cameroon as FE8AB in 1948 and French West Africa as FF8AG in 1951. He lived until the ripe old age of 102 and his fist was still pristine.

FQ8WB	1929	
FQ8HPG	1930	
FQ3AT	1947	
FQ8SN	1948	
FQ8HC	1949	
FQ8AA	1950	
FQ8AC	1950	
FQ8AB	1950	
FQ8AE	1951	1958
FQ8AF	1951	
FQ8AG	1951	1953
FQ8AD	1952	
FQ8AJ	1952	
FQ8AL	1952	
FQ8AP	1952	
FQ8AQ	1952	
FQ8AR	1953	
FQ8AT	1953	
FQ8AK	1954	
FQ8AX	1954	
FQ8AY	1956	1959
FQ8AI	1957	
FQ8HB	1957	
FQ8HG	1957	
FQ8HP	1957	
FQ8HW	1957	
KL4LIB/FQ8	1957	
FQ8AZ	1958	
FQ8HL	1958	
VQ4EO/FQ8	1958	
FQ8HA	1959	
FQ8HI	1959	
FQ8HK	1959	
FQ8AW	1960	
FQ8HD	1960	
FQ8HE	1960	
FQ8HN	1960	
FQ8HO	1960	
FQ8HR	1960	









Until next month 73!

Free Tower (W6HB)

The family of W6LFE (SK) is offering the following to anyone who can come to safely remove it.

Tri-Ex HZN-354 55 ft. Motorized tower

HyGain TH-11DX Yagi

Yaesu G-1000DXA Rotator and controller

The items are installed at the QTH of W6LFE in West Hills. There is no hurry. The house will not go on the market until the spring. Stephan Shobe, W6SKS, (SoCal Tower guy) has inspected the items.

You are welcome to contact family member Lee Aurich at 510-332-6350 or lee@aurich.com at your convenience.

Very Good Antenna System Needs New Home (W6HB)

Offered for sale at a reasonable offer to dismantle and take down is a Tashjian LM-470 Motorized Crank up tower including the antennas. Tower and antennas are in operating, safe condition. Included in the sale will be the tower, a 4 Element SteppIR DB36 antenna with the 80M option and works on 6M to 80M. The antenna is controlled by SDA 100 Controller. The Rotor is a heavy duty M2 Antenna Systems Model No: OR2800PXAZ with a RC2800PX Programmable RS232 Control Unit. On the mast is also a 5 Element VHF/UHF Yagi. Crowning the top is a Comet CX 333 VHF/UHF Vertical Base antenna for 2M/440 and 220 use. All control cables and feedlines, and Controllers from the shack to the antenna are part of the deal and are included. The concrete base of the tower is not required to be removed.

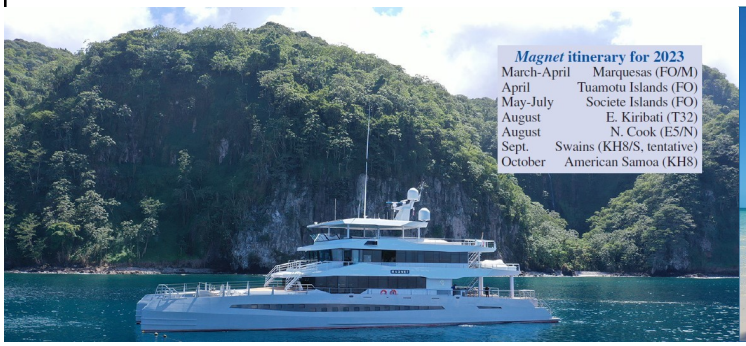
Buyer is responsible for and must be able to professionally, safely dismantle, take down and haul away the system as described above once a Cash only or Bank Certified Check agreement is reached.

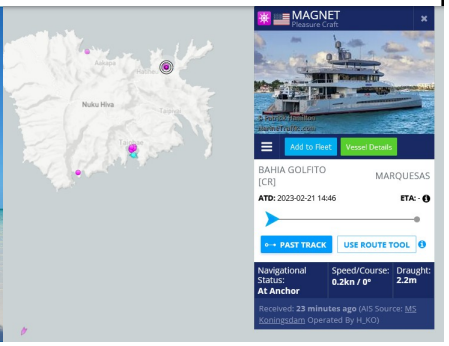
Serious interested parties can contact me W6BUX by email if any clarification is needed or if there are any questions.

Wanted: Alpha 87A in Very Good Condition (K6AFW)

Art is looking for an Alpha 87A in very good condition. He has several amps including a few of the new solid state ones which he says “Transistors are 3 legged fuses. His ideal amp is the 87A and this would fulfill his bucket list! Contact him through his email address on QRZ.com

DXpedition yacht MV Magnet put in at Nuka Hiva in the Marquesas on 3/16. They dropped off their RIB landing craft and were very easy to work on 40 CW! They will be going to E5/N North Cook Islands then KH8,Samoa. You can follow them on the Maritime AIS system.



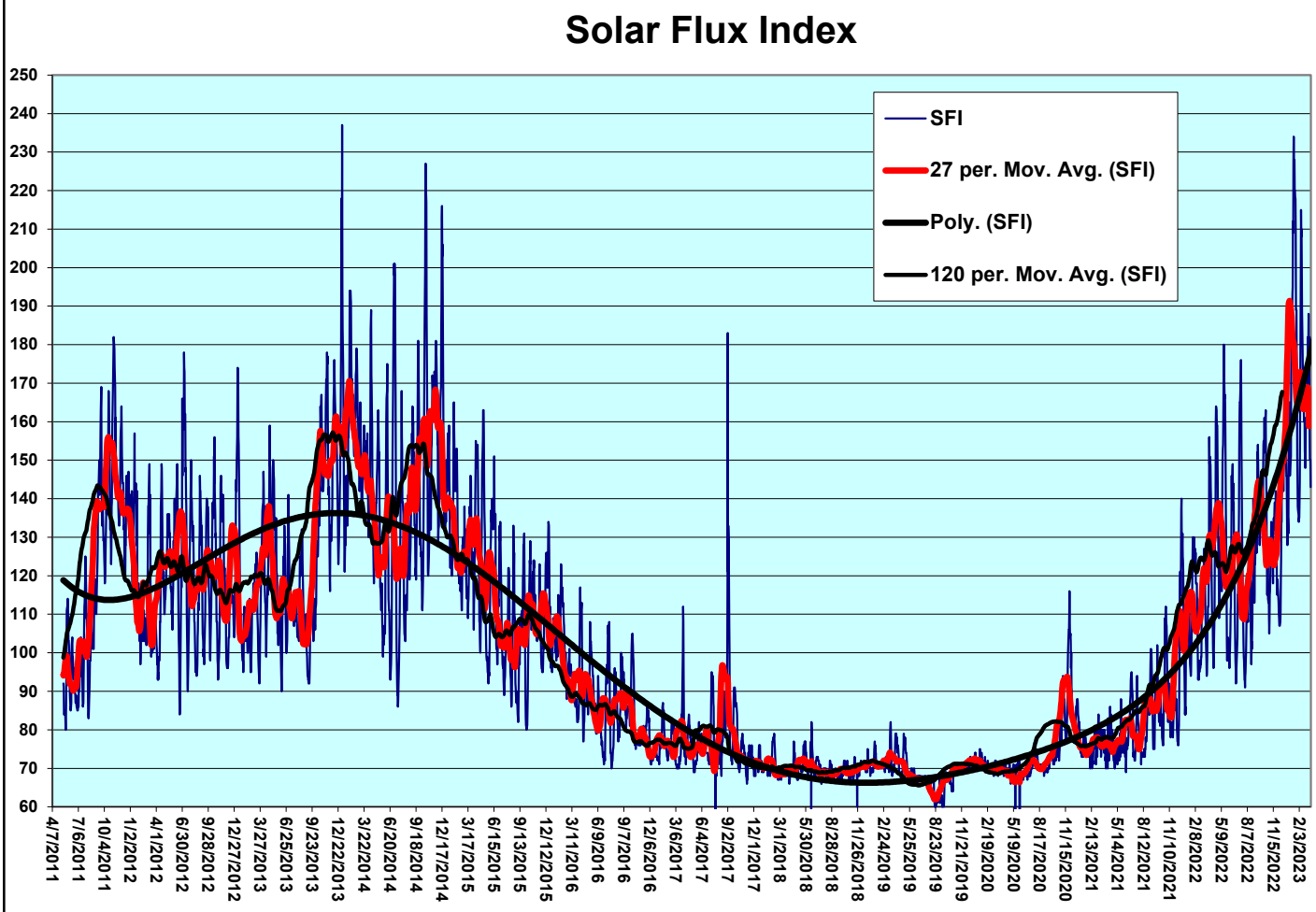


Moderate Solar Cycle?

N6RV has been tracking the SFI and SSN since 2011. The predictions for the current solar cycle, Cycle 25, indicated it would be a repeat of Cycle 24. Looking at the data, this cycle seems to be anything but Cycle 24. The chart below shows the second peak of 24. It is obvious that the current SFI far exceeds that and we had several consecutive days over 200. The rate of change from month to month has been increasing. It doesn't seem like it is ready to slow down!... And we are not at the peak! If this is a singular peak, meaning both the suns northern hemisphere magnetic pole and southern hemisphere will flip almost at the same time, then the peak may arrive early and far exceed 200. If not, then we will have another cycle with 2 peaks and those peaks will be 50 to 60 points higher than Cycle 24. In either case this will be a historic solar cycle.

At our February meeting, Carl, K9LA, stated that, at best, the current predication is a moderate cycle. As it progresses it looks like it will be closer to the biggest cycle in our life time, cycle 19. If that is the case we will be working worldwide DX on 12, 10, and 6 meters at all hours… for the next several years! Can you imagine running QRP and working into the Middle East both on Long Path and Short Path on 10 meters for several hours. It is already happening in a limited sense right now! ClubLog leaders are nearly at their 2022 country count… in 3 months! Furthermore, the large influx of DX worked is not localized. Everyone around the world is working everywhere else! That is a positive indicator. We had 10 consecutive days of North-South openings on 6 meters. In the fall, the openings to the Middle East, Europe and Asia should be epic!

You really should not miss out on this opportunity. Get on the air!



Resource Page

Useful Sites

N0HR DXpedition Map
www.n0hr.com/wk34/

The DX Zone
www.dxzone.com/catalog/DX_Resources/

The Daily DX
www.dailydx.com/

Announced DX Ops
www.ng3k.com/misc/adxo.html

DXing.info
/www.dxing.info/dxpeditions/

DX 425 News
www.425dxn.org/dxped/

DX Italia DX News
www.marioi2mgp.it

DH9SB Weekly DX Calendar
http://www.dx-info.de

Southern California Contest Club
http://www.socalcontestclub.org/

Sixth District QSL Bureau
www.QSLBureau.org

ARRL VE Exam Sessions

To find an ARRL exam sessions in your area go to the website:
http://www.arrl.org/find-an-amateur-radio-license-exam-session

Club and Conduct Sites

Officer Guidelines
http://www.scdxc.org/download/Officer_Guidelines.pdf

DX Code of Conduct
http://www.dx-code.org/

Propagation

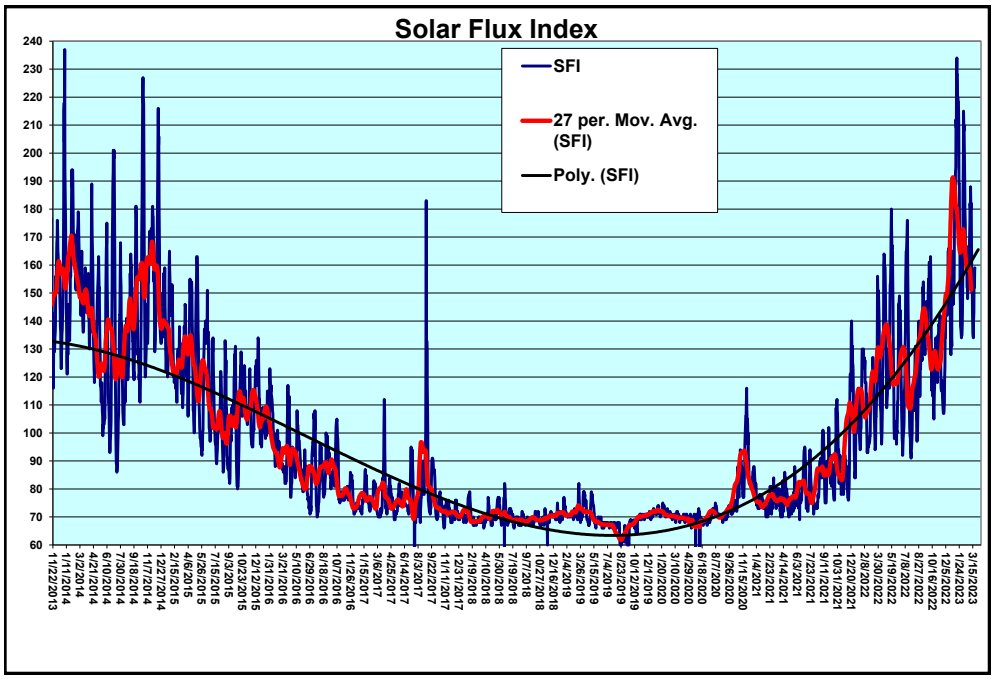
We are heading to a solar peak of epic proportions! The numbers already exceed the last cycle and they are still on the upswing!

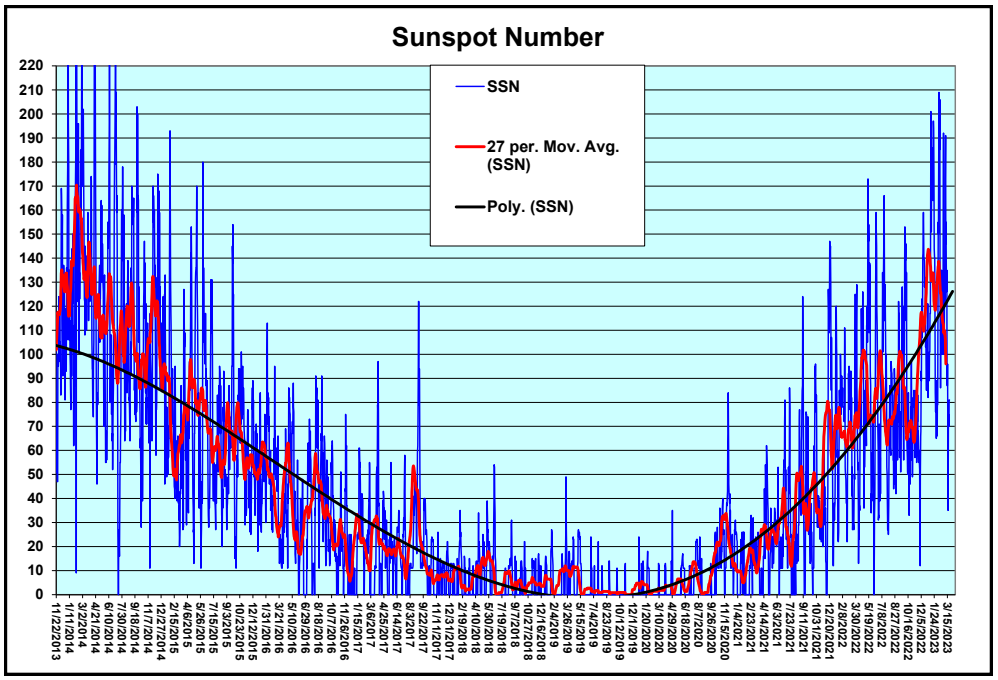
Strongest Cycle Ever? Biggest Cycle?

Understanding Indices - K9LA

What to Expect During the Rising Years of Solar Cycle 25 - YouTube

The Termination Event | Spaceweather.com





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